

# MEASLES UPDATE

## National Immunization Program, Centers for Disease Control & Prevention Measles Activity through Week 32 (ending Aug 10, 2002)

### CONFIRMED CASES REPORTED TO THE MMWR (U. S. only)

Cumulative Total by Week 32, 2002:	15
Total by Week 32, 2001:	91
Number of OUTBREAKS IN 2002: (Outbreak = 3 or more linked cases)	2
Number of current outbreaks:	0

### Confirmed cases recently reported to NIP:

**St. Paul, Minnesota** reported positive IgM and IgG results on a 29-year-old pregnant female arriving from the **Ukraine** on July 9. Rash began July 16. Other symptoms included fever of 100.8, cough and Koplik's spots. The blood was drawn on July 17 (day 2). The State planned to obtain another serological specimen, as well as a clinical specimen for possible viral isolation.

**San Francisco** confirmed **2 new cases** in 31-year-old twin brothers with rash onsets July 14 and July 26. Case #1 had classic symptoms with first serology negative. Second specimen drawn on 7/19 was positive. Case #2 (rash July 26) also met case criteria with serology pending. Clinical specimens were collected from both cases. **Source is unknown.**

**Marion County, Indiana** received IgM positive results from the ISDH Lab in a 34-year-old male resident, who had recently returned from mission work (for orphanage outreach) in **South Africa**. Case-patient left Johannesburg on July 27 with rash onset in Indiana on August 11.

#### Flights involved:

7/27 Johannesburg 8:10 pm. on South African Airlines #211S  
7/28 Arrived in Atlanta at 8:20 a.m.  
7/28 Departed Atlanta at 11:05 a.m. on Delta #1190  
7/28 Arrived in Indianapolis at 11:33

CDC will share travel itinerary with the WHO office in Harare (it is possible he could have been infected on the plane). The case-patient did not remember being around anyone with a rash illness either in South Africa or on the plane. No spread cases have been identified as of August 22. The Marion County Health Department continues active surveillance with all contacts from several exposure sites.

Viral specimens were received at CDC Measles Lab on August 21.

Total No. Reported to MMWR during Wks 24-32: 6

**OHIO (Week 27)** 1

**Cleveland (Cuyahoga County)** reported 1 case in a 9-year-old visitor from **ITALY**, rash onset June 23. The child was seen at a Cleveland clinic for measles-like symptoms on June 25. Two days prior, on day of rash onset, the child had been in Toronto, CANADA for a family reunion. The family stayed at a hotel and went to an amusement park. Ohio notified Canada. Virus sequenced by CDC was genotype D7 (consistent with Europe).

**TEXAS (Week 29)** 1

**Collin County** reported confirmed measles in a patient hospitalized near **Plano** (north of Dallas), rash onset July 10. The 38-year-old female was infected by her nephew in **Iran** 21 days earlier. Symptoms included fever, vomiting, sore throat, extreme malaise. Viral specimens were sent to the Texas State Lab.

**NEVADA (Week 29)** 1

**Clark County** received positive lab results for measles and CMV on a 23-year-old resident of Las Vegas who had been hospitalized. The patient lived in Honolulu until age 19 and did not know his vaccination history. Headache and malaise began June 10. He was prescribed augmentin on June 13 for sinusitis. On June 18, he developed conjunctivitis, sore throat, nausea, vomiting, diarrhea and was admitted. Rash followed 2 days later on June 20 (rash duration 4 days) which began on leg and spread upward to stomach and chest. Rash on face was mild and lasted about a day. He was tested for RMSF; Toxoplasmosis, CMV and measles. Results were IgM positive and IgG positive for measles (day 3); and IgG positive and IgM positive for acute CMV.

**HAWAII (Week 30)** 1

**Honolulu County** reported a delayed report in a 14-year-old with rash onset March 29. The teen was visiting from **Japan** met case definition and was IgM positive.

**INDIANA (Week 32)** 1

Serology was IgM positive for measles at CDC Lab for a 19-year-old living in **Madison County**. Records indicate the patient had rash, cough & coryza when seen by a physician on July 3. Bloods drawn on July 13 and July 16 were positive at CDC.

**MISSOURI (Week 32)** 1

**LaCade County** confirmed **imported measles** in a 30-year-old U.S. resident with **rash onset July 21**. The patient was in **Malaysia** July 9-19. He was initially diagnosed with RMSF in the E.R. Blood drawn on July 23 was positive for measles by Missouri.

#### Flights from Malaysia to U.S. on July 18

7/18 United 806 from Malaysia to Singapore (1 hour layover)  
then to Hong Kong  
7/19 United 896 from Hong Kong to Chicago (1 hour layover)  
7/19 United Flight 1671 from Chicago to St. Louis, MO

**Week 32, 2002**
**MEASLES CASES CONFIRMED as of August 16 , 2002**

#	Proj	Age/DOB	Rash Onset	VAX	Spread Cases	Reported to MMWR	Viral Specimens Received	Comments/Source Country
1	CA	10 year old male	2/8/02	Y	No	Yes	No	Outpatient in Long Beach Hospital Source Unknown; part of 3-case OUTBREAK VACCINATED AT 51 weeks of age
2	CA	25 year old male	2/11/02	N	No	Yes	No	Hospital employee in Long Beach Source Unknown; part of 3-case <b>OUTBREAK</b>
3	CA	40 year old male	2/11/02	N	No	Yes	No	Hospital employee in Long Beach Source Unknown: part of 3-case <b>OUTBREAK</b>
4	FL IMPORT	18 month old female	2/16/02	N	No	Yes	No	U.S. resident in Manatee County / <b>IMPORT</b> Travel to Miami 1/31 & Dominican Republic 2/1-4
5	NYC IMPORT	7 month old male	3/8/02	N	Yes (1)	Yes	No	<b>IMPORT</b> from Pakistan, U.S. resident <b>Source for Brooklyn OUTBREAK</b> Infected 20-year-old aunt (rash onset 3/21)
6	NYC Traceabl	20 year old female	3/21/02	N	Yes (1)	Yes	No	Traceable to Import from Pakistan (case #5) Brooklyn <b>OUTBREAK</b> Infected her 2.5 month old son with rash onset 4/4
8	NYC Traceabl	2.5 month old male	4/4/02	N	Unk	Yes	?	Traceable to import from Pakistan Brooklyn <b>OUTBREAK</b> Source is case # 6
7	HI IMPORT	14-year-old female	3/29/02		No	Yes	No	Visitor in Honolulu from Japan. Reported to MMWR in Week 30.
9	NYC IMPORT	11 month old female Manhattan (DOB 4-01)	4/6/02	N	Unk	Yes	Yes, D4	Single <b>IMPORT U.S. resident</b> /Pakistan Genotype D4 Not outbreak related
10	NYC	11 month old female Brooklyn (DOB 5-01)	4/23/02	N	Unk	Yes	Yes, D8	Unknown source; not linked to cases above. Reported as import but should be indigenous The child had not traveled.
11	NYS IMPORT	18 month old	5/22/02		No	No	No	Non U.S. resident, IMPORT from India Reported via netss in error as rubella. ORANGE County, NYS
12	MS IMPORT	22-year-old	6/17/02	N	No	No	Yes, B3	Import from Nigeria Genotype B3
13	NV	23-year-old male Las Vegas	6/20/02	U	No	Yes	No	Likely a measles false positive. Clark County
14	OH IMPORT	9-year-old	6/23/02		No	Yes	Yes, D7	Import from Italy
15	GA IMPORT	40-year-old female	6/28/02			No	No	Visiting scientist from RUSSIA; No virals were obtained. Arrived 21 days before rash onset. One co-worker at CDC was excluded.
16	IN	19-year-old male	7/3/02	U	No	Yes	No	Foreign born, residing in Madison County but Details sketchy. IgM positive results at CDC. Unknown source, no spread cases found.
17	TX IMPORT	38-year-old female	7/10/02			Yes	Yes, at the State Lab	Residency unknown Import from Iran
18	MN IMPORT	29-year-old female	7/16/02		No	No		Residency unknown Pregnant female (5 months) arriving in St. Paul from the Ukraine
19	CA	31-year-old twin brother	7/14/02			No	Yes, at the State Lab	Unknown source San Francisco resident, twin brother to next case
20	CA	31-year-old twin brother	7/26/02			No	Yes, at State Lab	Unknown source San Francisco resident, twin brother to above case
21	MO IMPORT	30-year-old	7/21/02			Yes	No	U.S. resident in Malaysia July 9-19. Flights from Malaysia/Singapore/HongKong/Chicago/ St. Louis, Missouri on 7/18-19. Hospitalized 7/22
22	IN IMPORT	34-year-old male	8/11/02	U		No	Yes	U.S. resident, IMPORT from South Africa Returned on July 28

2002 Measles Outbreaks (3 or more cases)						Shaded = outbreak was epi-linked to an imported case Double outline = viral sequencing was successful for an outbreak case	
	Proj	Location	1 <sup>st</sup> & Last Rash	#Conf Cases	Ages	Source	Comments
1	CA	Long Beach	2/8/02 - 2/11/02	3	10 years, 25 years, 40 years	Unknown	Source unknown, hospital setting. No viral specimens collected.
2	NYC	Brooklyn	3/8/02 - 4/4/02	3	2.5 months, 7 mos & 20 yrs	Pakistan	Source was 7 month old (import) Pakistan. All 3 epi-linked, relatives. No viral specimens received

Please send questions or comments to Dr. Mark Papania, Chief, Measles Elimination Activity, or to r Ms. Susan Redd of the National Immunization Program via e-mail to: [sbr1@cdc.gov](mailto:sbr1@cdc.gov), fax (404) 639-8665, or call (404) 639-8763/8230. We appreciate knowing of any measles activity in your project area.

For genotyping results, new publications, press releases etc., please visit the CDC Measles Lab website:  
<http://www.cdc.gov/ncidod/dvrd/revb/measles/>